

Biodiversity of Macrofungi - BIOL 3530

FALL 2020 – Social Distance-Modified, HyFlex Lecture, Face-to-Face Lab, Partially Flipped

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Office Hours - via VoiceThread – send me an email if I do not respond quickly. Face-to-face by appointment

Social Distancing Modification – There are too many students in the class to socially distance in lab. Therefore, students will be split into two groups, Group Asco and Group Basidio. In many cases, when Group Asco is in lab, Group Basidio will be in lecture, and vice versa. Obviously, I cannot be in two places at the same time, so there will be a handful of lab sessions where I will not be present, and a handful of recorded lectures when your modified lab-time overlaps with lecture. This plan was developed to maximize opportunities for face-to-face instructional support in both lecture and lab, while also maximizing safety – both yours and mine.

HyFlex Lecture Plan – What HyFlex means in my class is you get to decide if you want to attend lecture face-to-face or online. It is totally up to you, you are welcome to switch it up, and there is no need to tell me ahead of time. That said, there will be some days where online lectures are the only option because of the Social Distancing Modification to the lab schedule.

Face-to-Face Lab Plan – Beginning September 14, Group Asco will meet for lab on Mondays 1-2:15 and Wednesdays 10-10:50, and Group Basidio will meet for lab on Mondays 2:15-3:45 and Fridays 10-10:50. I will be with both groups during the Monday lab periods. The Wednesday or Friday labs will be for students to work on the mushroom ID/collection project – which does not require my presence. However, I will visit the lab immediately after the lecture classes on these days to answer questions.

Partially Flipped – In 2018, this course was partially “flipped”. This means it was designed so students did much of the work at home, with many lecture periods used for presentations and discussions instead of lectures. This method is being used again because a large majority of my 2018 students reported positive feelings about the approach at the end of the semester. That said, a WARNING is needed, as not every student liked it! There is a lot of homework, and you will not earn a perfect score if your work is inaccurate or incomplete. If this does not interest you, then I highly recommend that you find a different course.

Week 1	See BV announcements to figure out which group you belong & which schedule to follow.			
	August 24 to Sept. 11 Schedule		Schedule beginning September 14	
	Asclos	Basidios	Asclos	Basidios
Lab*	M, 1-3:50 Take-home 8/24 Field 8/31	M, 1-3:50 Field 8/24 Take-home 8/31	M, 1-2:15 W, 10-10:50 in place of M, 2:15-3:45	M, 2:30-3:45 F, 10-10:50 in place of M, 1-2:15
Lecture*	M, 10-10:50** W, 10-10:50** F, 10-10:50**	M, 10-10:50** W, 10-10:50** F, 10-10:50**	M, 10-10:50** W, 10-10:50, Kaltura when applicable F, 10-10:50	M, 10-10:50** W, 10-10:50 F, 10-10:50, Kaltura when applicable

*Schedules are subject to change

**Alternating in class and Kaltura - See Tentative Schedule for dates – or meeting locations.

Course Description – A survey of the biology and diversity of fungi that produce large sporocarps, with an emphasis on identification. Field trips may be required.

Required Materials:

- J.H. Petersen. 2013. The Kingdom of Fungi. Princeton University Press.
- Mushrooms Demystified, David Arora
- Digital camera – cell phone camera is perfect
- Pocket knife or similar
- Mushroom collecting basket - medium sized cardboard box is fine
- 10X handlens or 10-12X cellphone macrolens attachment

Learning Outcomes

Macrofungi Knowledge – At the end of the course, students will be able to...

- Identify mushrooms based on ecological, macroscopic and microscopic data.
- Use mycological terminology to describe characteristics of macrofungi.
- Analyze and interpret DNA sequence results and build cladograms.
- Voucher fungal sporocarps and record digital data.
- Group mushrooms by systematic relatedness.

Professional Skills – This course will also provide opportunities to improve...

- Microscopy skills
- Attention
- Critical thinking
- Knowledge synthesis

Important Information

- A grade of C or higher is required in the course to count towards a biology degree.
- If you have need for special arrangements to complete the requirements of this course, please contact the Access Office for Students with Disabilities, and discuss this need with me.

<u>GRADE – if we remain on-campus; weights may change if we go online!</u>	<u>SCALE</u>
Presentation/In-Class Assignment Grades: 35%	A 90-100%
Other Lecture Grades: 35%	B 80-89.5%
Lab Grades: 30%	C 70-79.5%
*Higher standards &/or additional projects for Honor's Option	D 60-69.5%
	F <59.5%

HOW TO CALCULATE YOUR GRADE

Point values for each assignment will reflect the time needed to complete or prepare for the assignment and the difficulty of the assignment. Use the 2 steps below to keep up with your grade.

1. CALCULATE A PERCENTAGE VALUE FOR EACH ASSESSMENT:

$$\text{% GRADE} = (\# \text{ POINTS EARNED} / \# \text{ POSSIBLE POINTS}) \times 100$$

2. PLUG YOUR PERCENTAGE VALUES INTO THIS FORMULA:

$$\text{GRADE} = (\% \text{ Presentation Grade} \times 0.35) + (\% \text{ Other Lecture Grade} \times 0.35) + (\% \text{ Lab Grade} \times 0.3)$$

Assessments

Presentation/In-Class Activity Assignments. During the first half of the course, fungal species within important genera & form-groups will be presented by students via short presentations, instead of by me in multiple, long lectures. There will be **9 Species Presentation Assignments**. Your grade will be based on the following: 1) the completeness and accuracy of your HW assignment, 2) the completeness and accuracy of your presentation, and 3) your ability to summarize the commonalities and variances among the species presented within your group. Each presentation is expected to be 3-5 minutes long. No grades will be dropped, but two presentations may be turned in up to 48hr late without penalty. During the second half of the course, there will be **6 HW and In-Class Activities** on macrofungal systematics. These grades will be based on the following: 1) the completeness and accuracy of your HW assignment, and 2) your participation in the in-class activity.

Other Lecture Grades. Most of the formal lecture content will be assessed using two in-person written exams, one prior to midterm and the second after midterm. BlazeView Quizzes will be used to assess most of the student presented content. A cumulative exam will be used to evaluate both lecture and student presentation content at the end of the semester. Points will also be earned for taking thorough, hand-written notes of each lecture/presentation. For full credit, lecture notes must be checked-off or reported the day of the lecture. Notes submitted after the lecture date are worth 75% if submitted at least 24hr before the exam or BV Quiz, and 50% if within 24hr of the assessment.

Lab Grades. The plan for this portion of the class is really dependent on how long we continue to meet face-to-face. If all goes well, there will be a collection project, requiring you to identify a selection of fungi that you collect to species. There will also be a Lab Practical that will evaluate your mastery of terminology and identification skills developed while working on the collection project. I also plan to do a Fungal Diversity Survey (FunDiS) Project, which includes DNA sequencing and sporocarp vouchering of a selection of the fungi that you collected and identified during the course. The FunDiS Project will be presented remotely the week after Thanksgiving during the lecture portion of the course; however, this presentation will be counted as a lab grade.

Policies & Expectations

- Every student must wear a face covering over their nose and mouth at all times while in the building.
- Maintain a 6' distance whenever possible. This includes when you speak with me outside of class.
- NEVER attend class if you have a temperature, do not feel well, or have been told to quarantine.
- Documented excuses are NOT required for missed lectures, labs, and (one) exam.
 - Missed lectures should be done online. All lectures must be watched and hand-written notes documented on the day of the lecture for full credit (see tentative schedule), or at least 24hr before the exam for partial credit. See above for details.
 - Missed time in the lab, due to absences or tardiness, must be made-up; otherwise your collection project will not be accepted. All Monday labs must be made-up in the laboratory at a later date. More flexibility is granted for the Wednesday/Friday labs, as students are permitted to use 3 W/F lab sessions to be outside collecting macrofungi, at your discretion. More approved time for outside collecting work will be approved for students who are demonstrating acceptable progress with the collection project. Requests for approval should be made during the Monday lab immediately before the additional outing.
 - Students are allowed to miss one exam due to questionable health concerns (see third bullet). The make-up exam will occur before or during the next scheduled class (10am on a Wednesday) unless a documented restriction keeps you from doing so, and an online, oral exam is not an option. If a second exam must be missed for questionable health, you will need to send me an email to let me know about your situation before 10am on exam day, and we will discuss your options.
- Maintain a positive learning environment by always being respectful of others. If someone is not being respectful, speak-up or disengage. Don't ruin it for others, and don't bring others down!
- Check your valdosta.edu email and BV Announcements every day.
- Have a mindset that you are in this class to learn, and do your best to make that happen.
- New Grading plans and Policies may be put in place if I discover my plan is not working with the HyFlex instructional model or if we move online completely.

Coronavirus Resources: VSU's Coronavirus FAQ page is located at <https://www.valdosta.edu/health-advisory/faq.php>. VSU Health and Wellness website is at <https://www.valdosta.edu/administration/finance-admin/campus-wellness/student-resources.php>.

Title IX Statement: Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: titleix@valdosta.edu

Access Statement: Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farbar Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit VSU's Access Office or email: access@valdosta.edu.

Academic Integrity: I follow the Academic Honesty Policies and Procedures of the University and the Department of Biology's Policy on Plagiarism. For more information, refer to www.valdosta.edu/academic/AcademicHonestyPoliciesandProcedures.shtml and www.valdosta.edu/biology/documents/biologyplagiarism.doc. "Academic Integrity/ Honesty" means performing all academic work without plagiarism, cheating, lying, tampering, stealing, receiving unauthorized or illegitimate assistance from any other person, or using any source of information that is not common knowledge.

Tentative Schedule – Before Midterm

Week	Lecture	BV Quiz (BVQ), Lecture Notes (LN), Homework (HW), Presentations (P), Class Summary (CS)	Lab
August 17-21	M - No lecture – intro done in lab W - Basidio in-class lecture, Ascus Kultura lecture F - Ascus in-class lecture, Basidios Kultura lecture	Syllabus BVQ - due Weds, 10am Wednesday LN - due lecture day, 11:59pm Friday LN - due lecture day, 11:59pm	Monday 1-2:15 – Ascus Course Intro Monday 2:30-3:45 – Basidios Course Intro
August 24-28	M - Basidio in-class lecture, Ascus Kultura lecture W - Asco in-class lecture, Basidio Kultura lecture F - Basidio in-class lecture, Asco Kultura lecture	Monday LN - due lecture day, 11:59pm Wednesday LN - due lecture day, 11:59pm Friday LN - due lecture day, 11:59pm	Monday 1-3:50 – Basidios in the field, Ascus take-home assignment
Aug 31- Sept 4	M - Asco in-class lecture, Basidio Kultura lecture W - Dr. C available for Questions F - Exam 1 (Sept 4) Ascus in 2202 & Basidios in 2040	Monday LN - due lecture day, 11:59pm EXAM 1!	Monday 1-3:50 – Ascus in the field, Basidios take-home assignment
Sept 7-11	Labor day - No Class W - HW and Presentation Introduction F - Practice HW, P, PS Cantonwine HW, P & PS Feedback, by 5pm Friday	Presentation Instructions BVQ - due Thursday by 5pm Practice HW & P - due 9:30am Friday Practice CS - due ~10:50am Friday	NO LAB
Sept 14-18	M - Presentation 1 - Gilled genera W/F - Presentation 2 - Boletes Cantonwine HW, P & PS Feedback, by 5pm Friday	HW & P - due 9:30am day of Presentation CS - due ~10:50am day of Presentation	Ascus - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
Sept 21-25	M - Presentation 3 - Polypores W/F - Presentation 4 - Gasteroids Cantonwine HW, P & PS Feedback, by 5pm Friday	Summary BVQ - First 2 & practice presentations - due Monday at 2:30 for Basidios & 3:50 for Ascus HW & P - due 9:30am day of Presentation CS - due ~10:50am day of Presentation	Ascus - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
Sept 28 - Oct 2	M - Presentation 5 - Clavaroids W/F - Presentation 6 - Toothed & Jellies Cantonwine HW, P & PS Feedback, by 5pm Friday	Summary BVQ - First four & practice presentations - due Monday at 2:30 for Basidios & 3:50 for Ascus HW & P - due 9:30am day of Presentation CS - due ~10:50am day of Presentation	Ascus - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
October 5-9	M - Presentation 7 - Resupinates, Stereoids, cephaloids W/F - Presentation 8 - Apothecial & Perithecial ascomycetes Cantonwine HW, P & PS Feedback, by 5pm Friday	Summary BVQ - First six & practice presentations - due Monday at 2:30 for Basidios & 3:50 for Ascus HW & P - due 9:30am day of Presentation CS - due ~10:50am day of Presentation	M – Part 1 Collection Project Due Ascus - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50

Tentative Schedule – After Midterm (Oct 8). Last Day to Withdraw is Oct 15.

Week	Lecture	Lecture Assignment Due Dates	Lab Schedule & Assignment Due Dates
October 12-16	M - Lecture W/F - Lecture	Summary BVQ – all 9 presentations - due Monday at 2:30 for Basidios & 3:50 for Ascots Monday LN - due lecture day, 11:59pm W/F LN - due lecture day, 11:59pm	Ascots - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
October 19-23	M - Lecture W/F - Lecture	Monday LN - due lecture day, 11:59pm W/F LN - due lecture day, 11:59pm	Ascots - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
October 26-30	M - HW Activity W/F – HW Activity Cantonwine HW Feedback, by 5pm Friday	HW - due 9:30am day of Activity <i>M - Classification of Chanterelles & Agarics</i> <i>W/F - Classification of Boletes & Polypores</i>	Ascots - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
Nov 2-6	M - HW Activity W/F – HW Activity Cantonwine HW Feedback, by 5pm Friday	HW - due 9:30am day of Activity <i>M - Classification of Gasteroids & Clavarioids</i> <i>W/F - Classification remaining Basidiomycetes</i>	Ascots - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
Nov 9-13	Monday, Exam 2 (Nov 9) - Ascots in BC2202 & Basidios in BC2040 W - Exam Review/Lecture F – Exam Review/Lecture	EXAM 2! W LN - due lecture day, 11:59pm F LN - due lecture day, 11:59pm	Ascots - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
Nov 16-20	M - HW Activity W/F – HW Activity	HW - due 9:30am day of Activity <i>M - Classification of apothecial ascomycetes</i> <i>W/F - Classification of perithecial ascomycetes</i>	Ascots - Monday 1-2:15 & Weds 10-10:50 Basidios - Monday 2:30-3:45 & Fri 10-10:50
Nov 23-24	M - FunDis Project Presentation Training THANKSGIVING	Asco Classification BVQ - due Monday at 2:30 for Basidios & 3:50 for Ascots Monday LN - due lecture day, 11:59pm	M - Part 2 - Collection Project Due Clean-up lab
Nov 30 - Dec 4	M - Dr. C takes questions about FunDis Projects W - FunDis Presentations posted F - FunDis Presentation Summaries due; Class Discussion	P - Due Weds, 10am CS - Due Friday, 10am	
Dec 7-11	Cumulative FINAL EXAM – Date & Format TBA		Lab Practical via BVQ or VT, 1-3pm